

Service
Service
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22 SY 401/23B

22 SY 401/23F

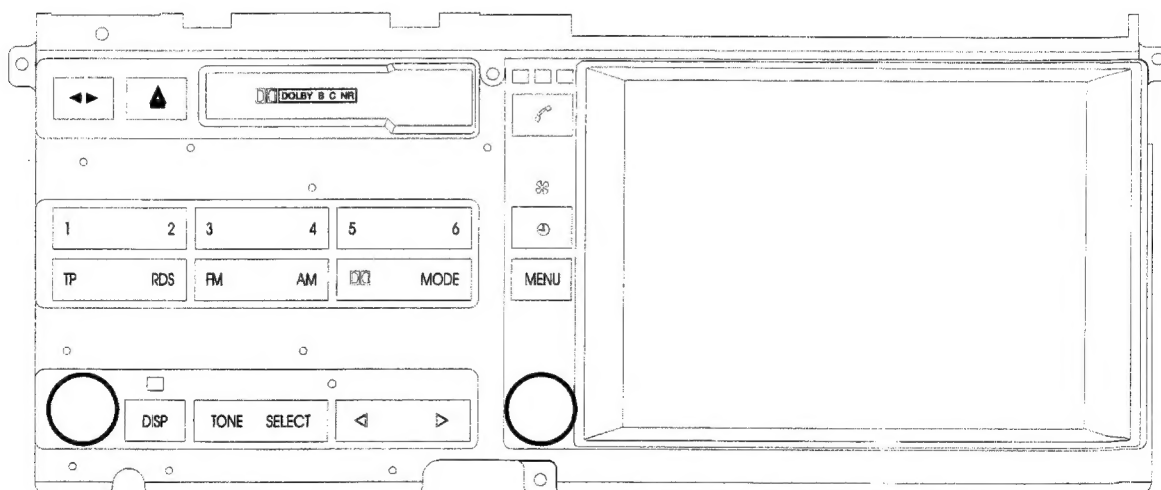
22 SY 401/23L

22 SY 401/23R

22 SY 401/23T

Service Manual

12 V 



PHILIPS

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GENERAL

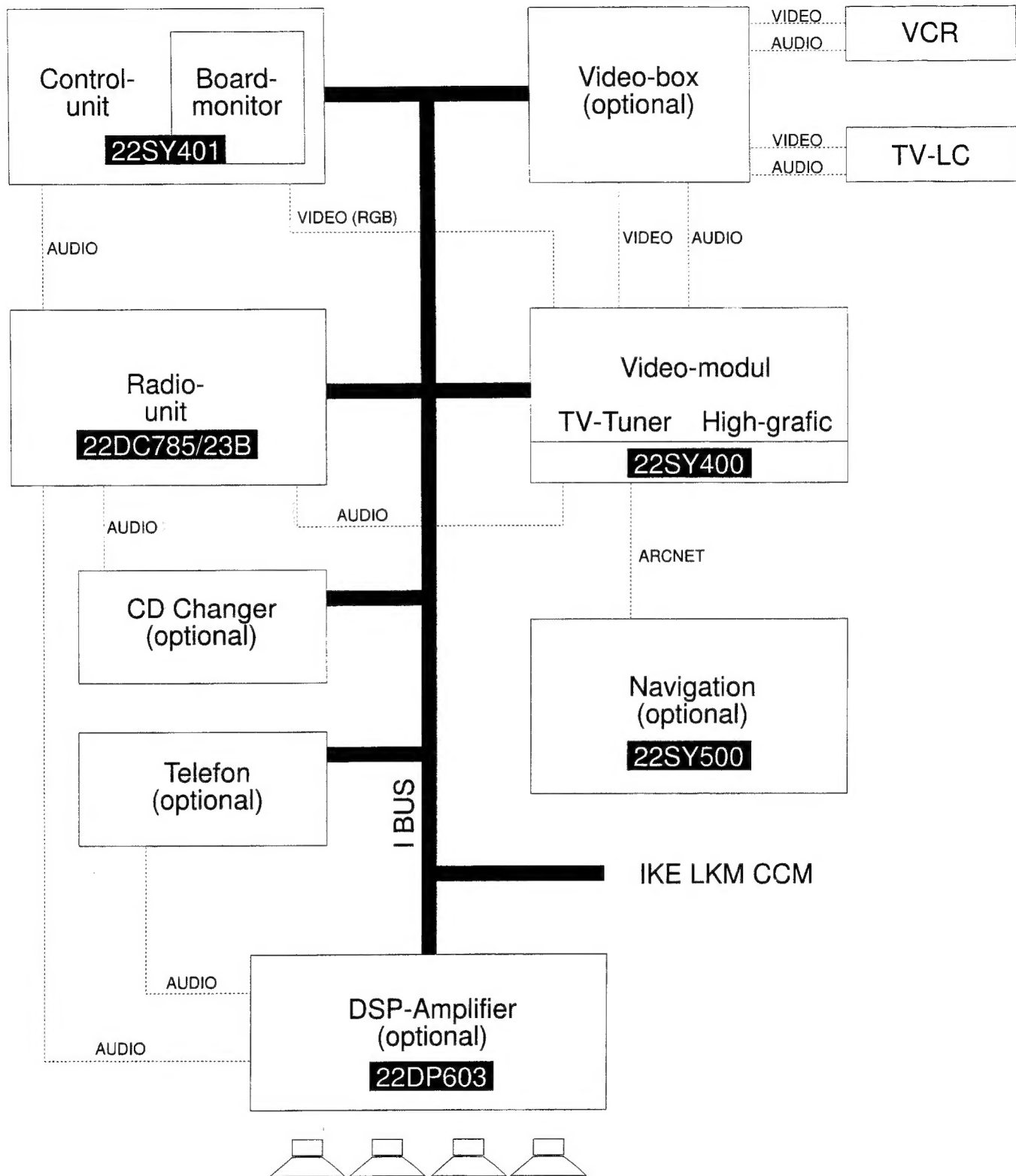
The Bordmonitor - Control unit 22SY401 is part of the BMW System and does not work standalone.
To run this modul you have to build up a system with:

- radiomodul for audio functions only
- radiomodul and videomodul for audio and display functions
- all modules for full operation
- RS 232 - I Bus interface, PC and communication software to simulate functions

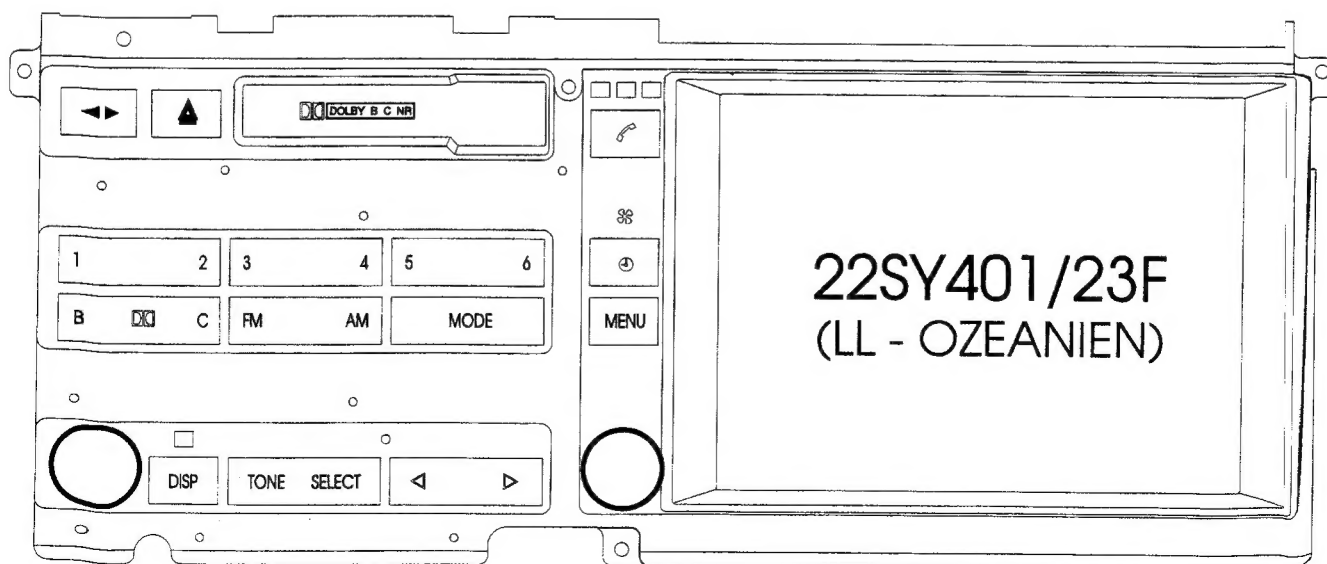
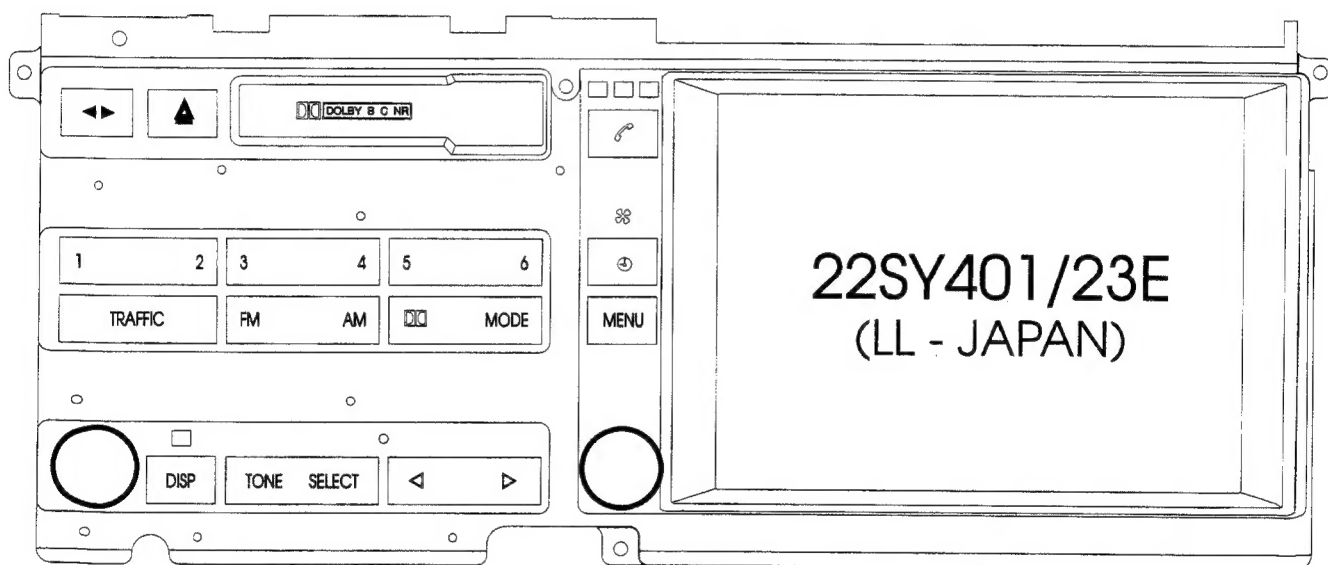
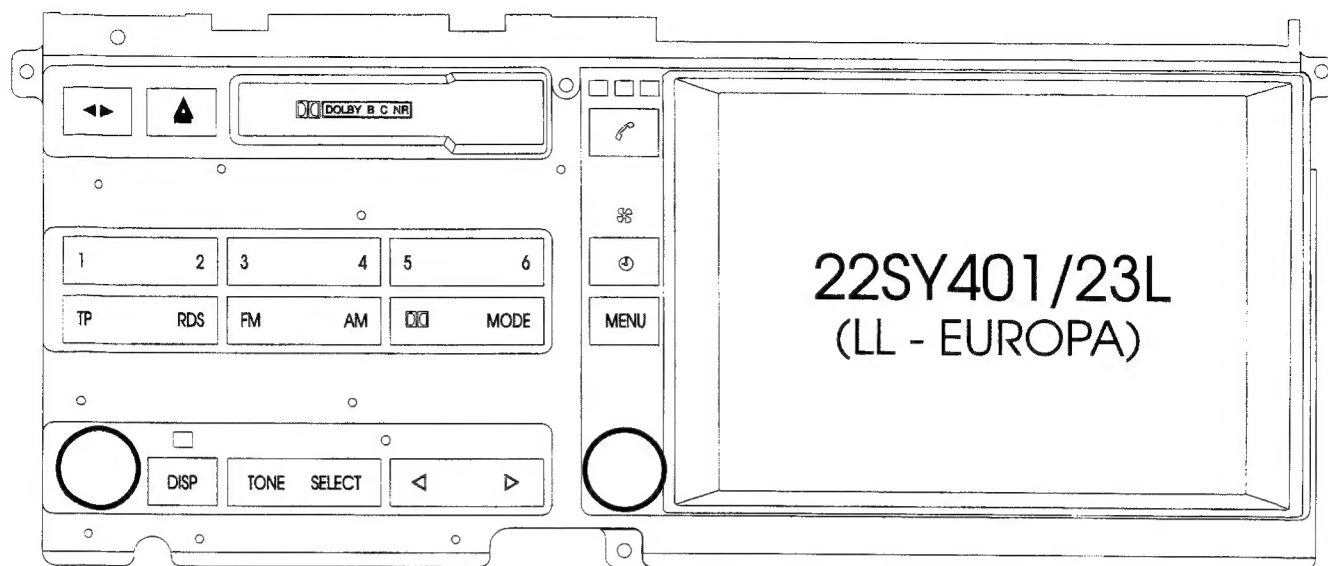
TECHNICAL DATA

GENERAL	Power supply:	6 V - 20 V
	Quiescent current:	100 μ A
	Playback current:	1 A (max)
CASSETTE DECK	Number of tracks:	2 x 2
	Tape speed:	4,75 cm / s
	Winding time (C60):	< 120 s
	Frequency response:	40 - 14.000 Hz
	Wow and flutter:	0,2% (IEC 386 / DIN 45507)
	S/N ratio (Dolby off):	FE: 48 dB (weighted) CR: 53 dB (weighted)
	Noise reduction:	8,5 dB (Dolby B) 17 dB (Dolby C)
AF AMPLIFIER	Output level:	3 V _{eff}
	Channel separation (1 KHz):	45 dB

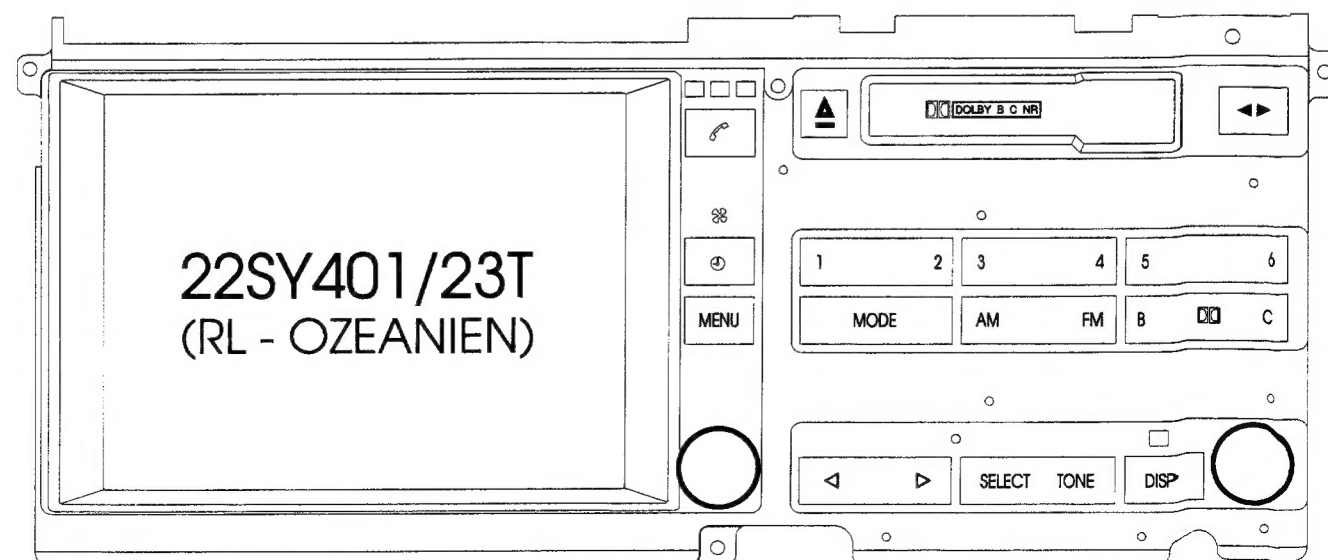
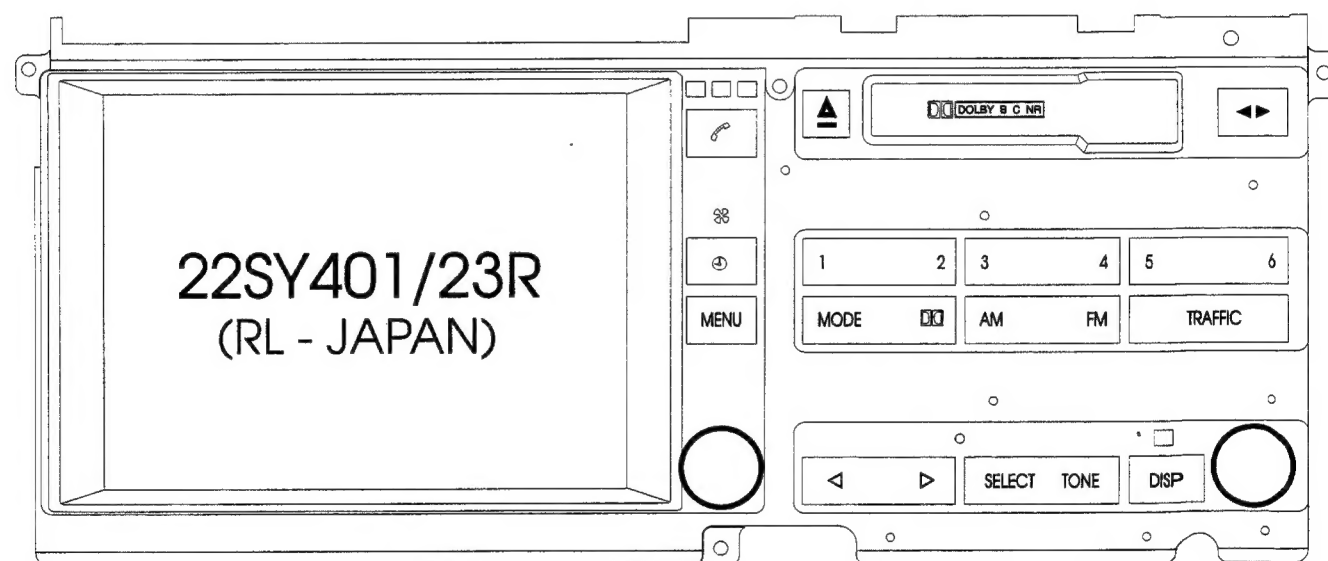
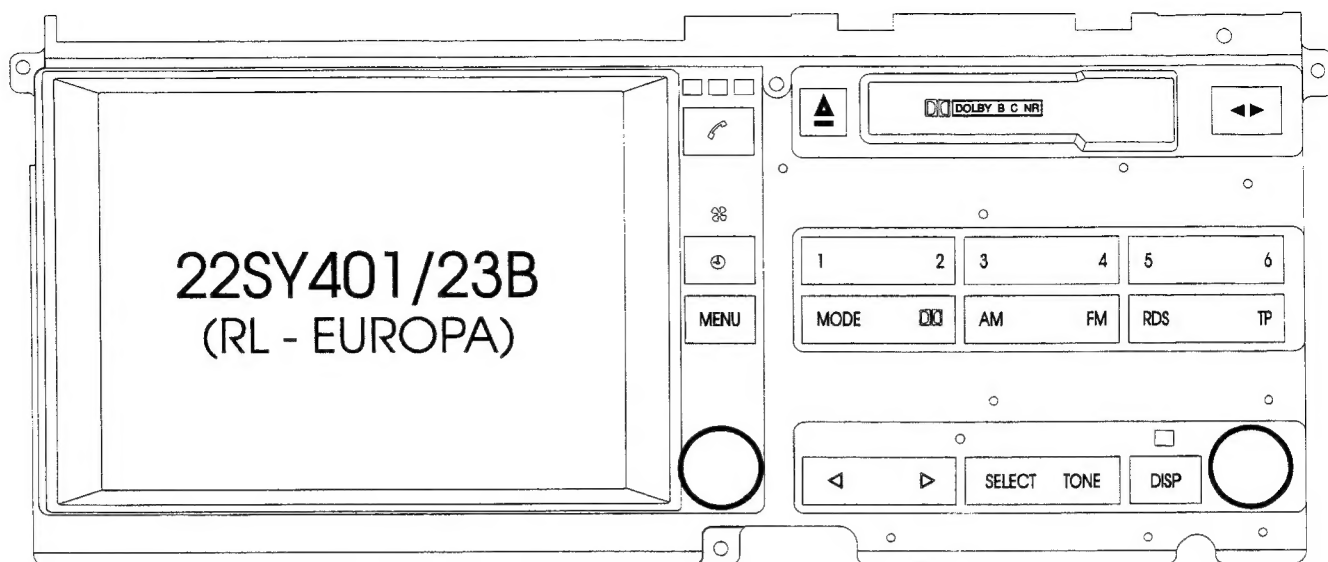
Boardmonitor - Control unit Systemconfiguration








VERSIONS FOR LEFT HAND STEERING



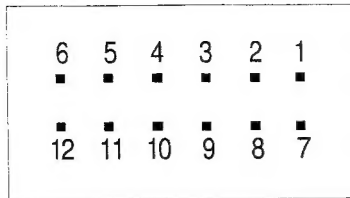
VERSIONS FOR RIGHT HAND STEERING



CONTROLS

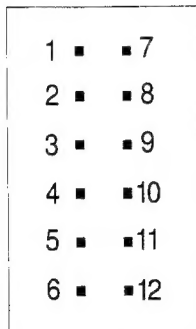
	send/end telephone green LED: in use yellow LED: telephone on red LED: telephone is out of transmitter/receiver area red LED blinking: telephone is not registered, only emergency calls possible
	clock on/off, also when monitor is off 2 sec: auxiliary heating/auxiliary fan on/off red fan symbol on: heating/fan is programmed red fan symbol blinking: heating/fan is active
MENU	(back) to system main menu
MONITOR BUTTON	turn: selection of function push: activation of selected function
DISP	permanent display of selected audio source and clock
VOLUME BUTTON	push: radio/cassette/CDC on/off (red LED indicates on) turn: volume control
SELECT	switch search function radio mode: manual — automatic with search level 2 — scan cassette mode: ffw/frw — scan — MSS CD mode: ffw/frw playback — next/previous track — scan — random play
TONE	select audio settings: fader — balance — bass — treble the settings can be changed with   2 sec: reset audio settings
 	search up/down with default search function or search function selected default radio mode: automatic search with low sensitivity automatic search with high sensitivity when push twice default cassette mode: MSS ffw/frw when push twice default CD mode: next/previous track
1-6	radio mode: select stored stations of respective band 2 sec: store actual station CD mode: select disc
FM	select FM1 — FM2 — FMA, 2 sec: store 6 strongest stations in FMA
AM	select SW — LW — MW
RDS	RDS on/off, 2 sec: REG on/off
TP (TRAFFIC)	Traffic program on/off on: only stations with traffic information are heard, interrupt cassette or CD during TA
 (B  C)	select DOLBY B — DOLBY C — DOLBY OFF
MODE	select CASSETTE — CD — RADIO
	select NOR (TAPE 1) — REV (TAPE 2)
	eject cassette

Connector pos.1006 of 22SY401 (Controlmodul)



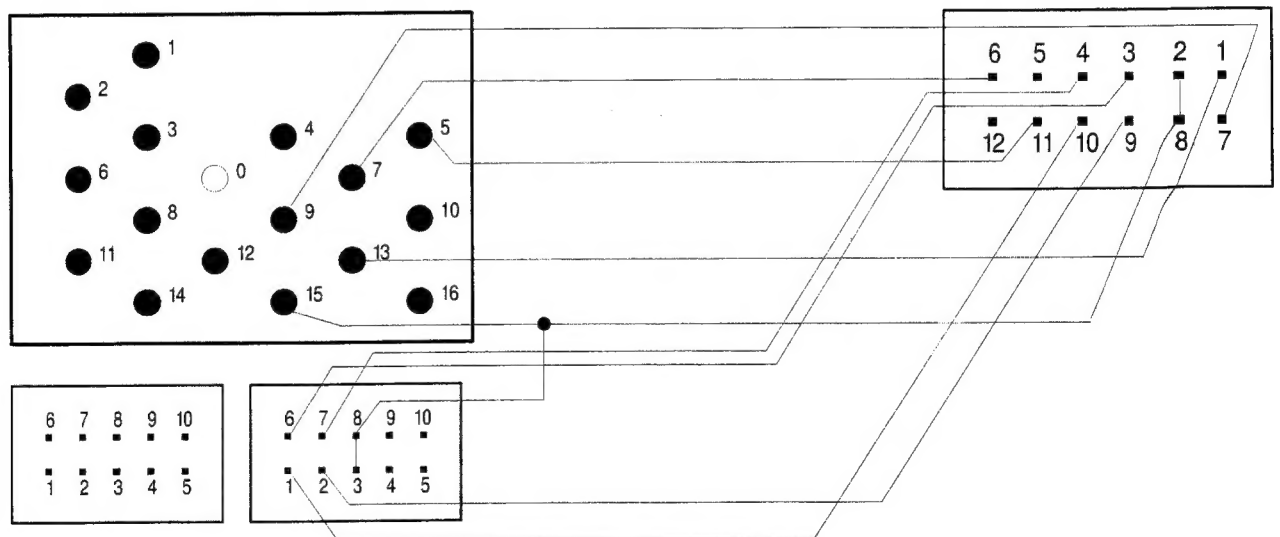
- | | | |
|-------------|-------------------|-----------------|
| 1: EXT. ILL | 7: PERM.+ | (from Battery) |
| 2: GND | 8: GND | |
| 3: NFCLWL + | 9: NFCLWLR - | (to Radiomodul) |
| 4: NFCLWL - | 10: NFCLWLR + | (to Radiomodul) |
| 5: NC | 11: IGN. KEY | |
| 6: I-BUS | 12: IIUM. CONTROL | (to Monitor) |

Connector NEC-Monitor



- | | |
|--------------------|---------------------|
| 1: VIDEO RED | (from Videomodul) |
| 2: VIDEO RED GND | (from Videomodul) |
| 3: VIDEO GREEN | (from Videomodul) |
| 4: VIDEO GREEN GND | (from Videomodul) |
| 5: VIDEO BLUE | (from Videomodul) |
| 6: VIDEO BLUE GND | (from Videomodul) |
| 7: VIDEOMODUL GND | (from Videomodul) |
| 8: PERM.+ | (from Battery) |
| 9 - 11: NC | |
| 12: IIUM.CONTROL | (from Controlmodul) |

Adaptercable



DEFAULT SETTINGS (Delivery status)

- | | |
|----------------|--|
| Volume: | 100 mV (FM, ΔF 0 22,5 KHz, fmod = 1 KHz) |
| Tone: | All tone controls in center position |
| Radio mode: | FM1, RDS on, REG off, TP off, SCAN off |
| Cassette mode: | Nor direction (TAPE 1), Dolby off, MSS off |
| Service mode: | GAL = 2, SEEK = 1, TP-V = 0 |

SERVICE MODE

Enter: Switch radiomodul on and press TP within 8 s for about 8 s, set will automatically switch to radio mode.

Leave: Switch radiomodul off.

With the < and > keys you can scroll the different parameters:

MONITOR SHOWS	DESCRIPTION	EXAMPLE
---------------	-------------	---------

Serial number	Serial number	R1003117
---------------	---------------	----------

Software Version	Software version	05-94 64
------------------	------------------	----------

GAL	GALA (SDVC)	2
-----	-------------	---

With preset buttons 1...4 you can select the desired GALA volume

FREQUENCY NAME F XX Q XX PI	Frequency PS Field strength Quality PI	FM 89,3 HR3 F 15 Q 15 D363
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*Fieldstrength-range 0...15 (corresponds to 0...60 dBV on FM and AM),
quality-range 0...15 (RDS always switched on).*

With preset buttons 1 and 2 manual search is possible, with 3 and 4 automatic search.

You can also select the different wave bands with AM and FM keys.

DSP	DSP installed/not installed	1
------------	-----------------------------	---

Seek Level	Search levels	1
-------------------	---------------	---

*With preset buttons 1 and 2 you can select search level 1 (high sensitivity)
or 2 (less sensitivity).*

TP-Volume	TA volume	+1
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*With preset buttons 1 and 2 you can adjust the volume for traffic announcements.
The selected volume is audible.*

CHECKS

Check with $U_{\text{SUPPLY}} = 13,2 \text{ V}$ / Radiomodul 22DC785/23B connected

Voltage check

Ign.key (R) on	MP 9200:	4,5 - 5,1 V (DC)
	MP 9207:	8,1 - 8,9 V (DC)
	MP 9208:	11,5 - 13,0 V (DC)
	MP 9209:	0,6 - 5,1 V (DC)
	MP 9210:	4,9 - 5,1 V (DC)
	MP 9211:	12,0 - 13,2 V (DC)
	MP 9213:	4,0 - 13,0 V (DC)
	MP 9215:	11,0 - 13,0 V (DC)
	MP 9309:	1,9 - 2,8 V (DC)
	MP 9317:	2,8 - 3,5 V (DC)
	MP 9324:	4,5 - 5,1 V (DC)
	MP 9327:	10,0 - 13,0 V (DC)
	MP 9328:	-0,1 - 0,5 V (DC)

High voltage check

Ign. key off, $U_{\text{SUPPLY}} = 25,0 \text{ V}$	MP 9208:	-0,1 - 1,0 V (DC)
	MP 9213:	-0,1 - 1,0 V (DC)
	MP 9215:	20,0 - 25,0 V (DC)

Dolby level check

Dolby test cassette, Dolby off	MP 9400:	290 - 310 mV _{eff} (adjust 3533 if deviates)
	MP 9402:	290 - 310 mV _{eff} (adjust 3534 if deviates)

Check measuring points

MP 9100: RXD	MP 9101: SCL
MP 9102: SDA	MP 9103: RADIO LED
MP 9104: TEL LED GRUEN	MP 9105: UHR LED
MP 9106: TEL LED GELB	MP 9107: TEL LED ROT
MP 9108: PWM LED	MP 9109: 5V
MP 9110: 5V	MP 9111: TXD
MP 9112: GND	MP 9113: ENABLE
MP 9114: CLOCK	MP 9115: DATA
MP 9201: KEY UHR	MP 9202: KEY TEL
MP 9203: KEY EJECT	MP 9204: 58G
MP 9206: KEY VOLUME	MP 9300: P0-1 (KEY MATRIX)
MP 9301: P0-2 (KEY MATRIX)	MP 9302: P0-3 (KEY MATRIX)
MP 9303: P2-5 (KEY MATRIX)	MP 9304: P2-4 (KEY MATRIX)
MP 9305: P2-3 (KEY MATRIX)	MP 9306: P2-2 (KEY MATRIX)
MP 9307: P2-1 (KEY MATRIX)	MP 9308: P2-0 (KEY MATRIX)
MP 9310: FOTOSENSOR	MP 9311: HANDDIMMER
MP 9312: VOLUME LEFT	MP 9313: VOLUME RIGHT
MP 9314: MONITOR LEFT	MP 9315: MONITOR RIGHT
MP 9316: P0-O (KEY MATRIX)	MP 9323: SWITCH (POWERCASS)
MP 9500: DOLBY OFF / DOLBY B / DOLBY C	MP 9502: MSS
MP 9504: ME/FE	MP 9505: TRACK
MP 9506: BIAS	MP 9507: NF RR
MP 9508: NF RN	MP 9509: NF LR
MP 9510: NF LN	

22 SY 40 1



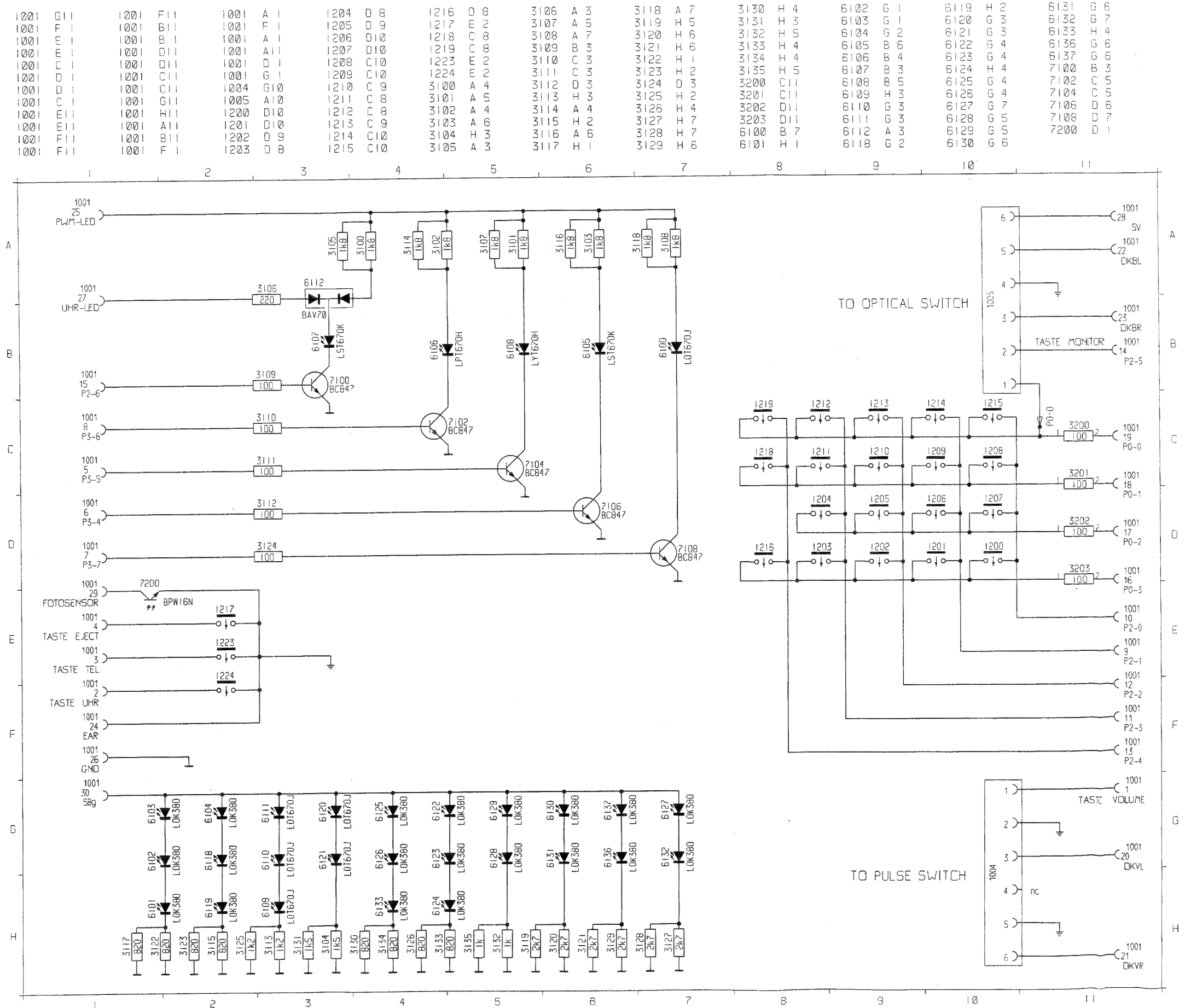
PCS 79 871

22 SY 40 1



1001 C 2	3120 B 3	6130 B 3
1004 C 1	3121 A 3	6131 B 3
1005 C 3	3122 C 1	6132 A 1
1200 C 1	3123 C 3	6133 B 1
1201 B 1	3124 C 1	6136 A 3
1202 B 1	3125 A 1	6137 A 3
1203 B 2	3126 B 1	7100 B 3
1204 B 3	3127 A 1	7102 B 3
1205 B 1	3128 A 1	7104 B 3
1206 B 2	3129 A 3	7106 B 3
1207 C 2	3130 B 1	7108 C 1
1208 C 3	3131 A 1	7200 C 2
1209 B 3	3132 C 1	
1210 B 2	3133 B 1	
1211 B 1	3134 B 1	
1212 B 1	3135 C 1	
1213 B 1	3200 B 1	
1214 B 2	3201 C 3	
1215 C 2	3202 B 2	
1216 B 3	3203 B 2	
1217 A 3	6100 C 1	
1218 A 1	6101 C 1	
1219 C 1	6102 C 1	
1223 A 3	6103 C 1	
1224 B 3	6104 C 3	
3100 B 3	6105 A 3	
3101 A 3	6106 A 3	
3102 A 3	6107 A 3	
3103 A 3	6108 A 3	
3104 A 1	6109 A 1	
3105 B 3	6110 A 2	
3106 B 3	6111 A 3	
3107 A 3	6112 B 3	
3108 C 1	6118 C 3	
3109 B 3	6119 C 3	
3110 B 3	6120 A 2	
3111 B 3	6121 A 1	
3112 B 3	6122 B 3	
3113 A 1	6123 B 2	
3114 A 3	6124 B 1	
3115 C 3	6125 B 3	
3116 A 3	6126 B 2	
3117 C 1	6127 C 1	
3118 C 1	6128 C 2	
3119 B 3	6129 C 3	

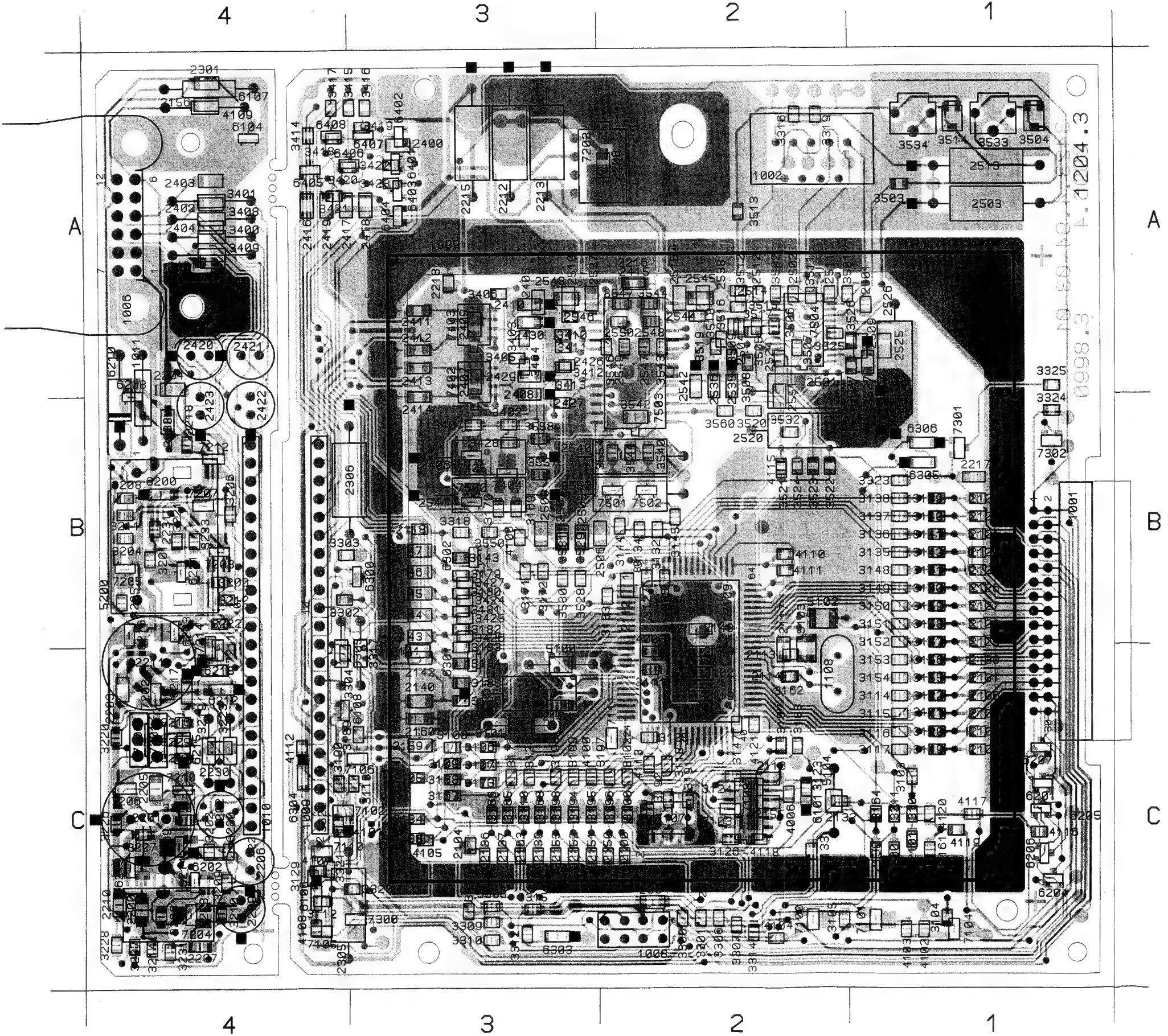
FRONT CIRCUIT



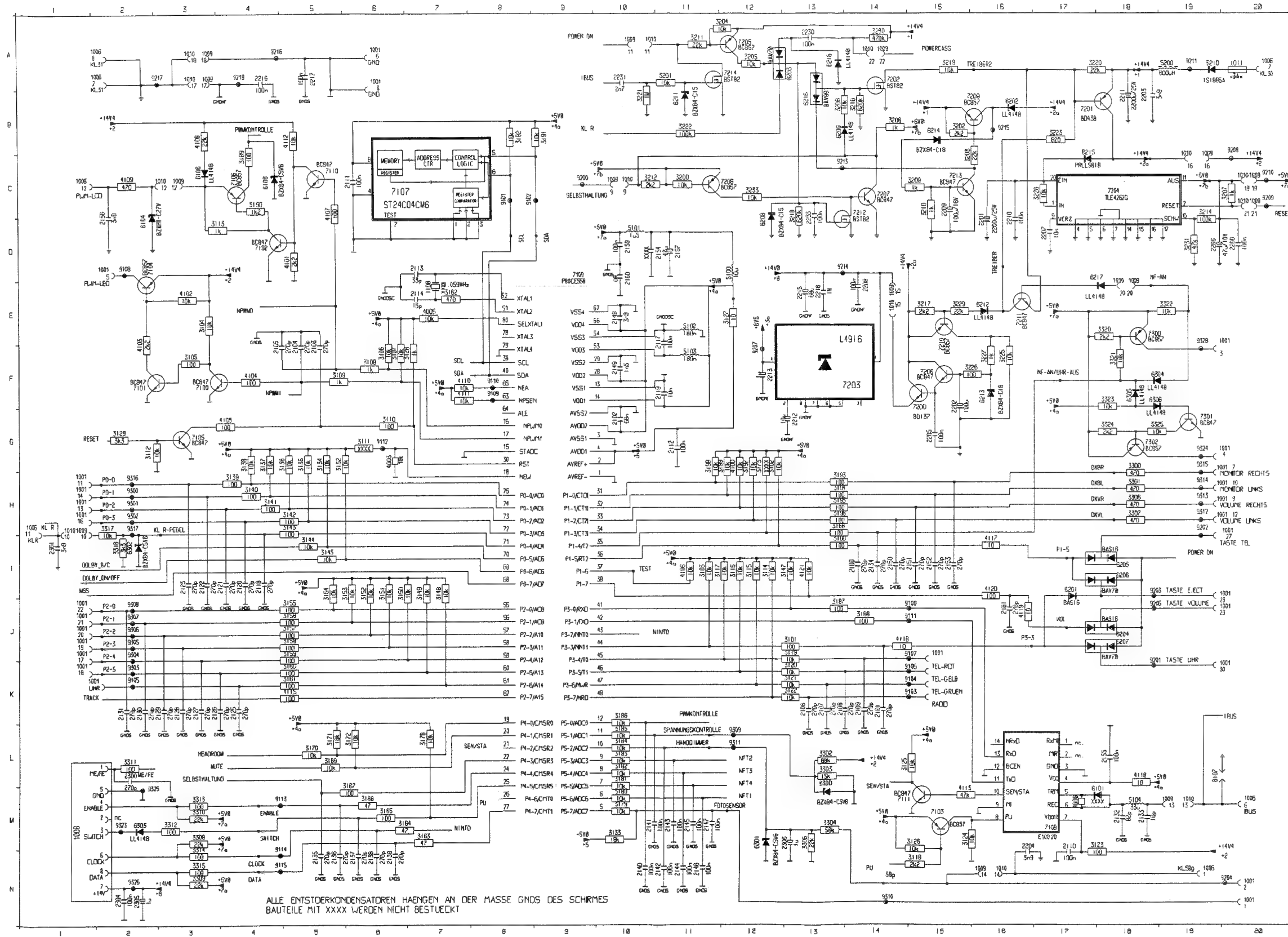
1001 B 1	2153 C 3	2427 B 3	3118 C 2	3184 C 3
1002 A 2	2154 C 3	2429 A 3	3119 C 1	3185 C 3
1006 A 4	2155 C 2	2430 A 3	3120 C 1	3186 C 3
1008 C 2	2156 A 4	2501 A 1	3121 C 1	3187 C 2
1009 B 4	2157 C 3	2502 A 2	3122 C 1	3188 C 2
1010 B 4	2159 C 3	2503 A 1	3123 C 2	3189 C 3
1011 B 4	2160 C 3	2504 A 2	3124 C 2	3190 C 4
1108 C 2	2161 C 1	2505 B 3	3125 C 2	3191 C 2
1999 B 1	2200 C 4	2506 B 2	3126 C 2	3192 C 2
2100 C 2	2201 C 4	2507 B 3	3127 B 2	3193 C 3
2101 C 1	2202 C 4	2508 B 3	3128 C 3	3194 C 3
2102 C 2	2203 C 4	2509 A 1	3129 C 4	3195 C 3
2103 C 3	2204 A 4	2510 A 3	3132 B 2	3196 C 2
2104 C 3	2205 C 4	2511 A 2	3133 B 2	3197 C 2
2105 C 3	2206 C 4	2512 A 2	3134 B 2	3198 C 3
2106 C 1	2207 C 4	2513 A 1	3135 B 1	3199 C 3
2107 C 1	2208 A 2	2514 A 2	3136 B 1	3200 B 4
2108 C 1	2209 C 4	2515 A 2	3137 B 1	3201 B 4
2109 C 1	2210 C 4	2520 B 2	3138 B 1	3202 C 4
2110 C 2	2211 C 4	2521 A 2	3139 B 1	3203 C 4
2111 C 2	2212 A 3	2524 A 2	3140 B 1	3204 B 4
2112 B 2	2213 A 3	2525 A 1	3141 B 1	3205 B 4
2113 C 2	2215 A 3	2526 A 1	3142 B 1	3206 B 4
2114 C 2	2216 A 2	2527 A 1	3143 B 3	3207 C 4
2117 C 2	2217 B 1	2535 A 2	3144 B 2	3208 B 4
2118 B 3	2218 A 3	2536 A 2	3145 B 2	3209 C 4
2119 C 2	2230 C 4	2537 A 3	3147 C 2	3210 C 4
2120 B 1	2231 B 4	2538 A 2	3148 B 1	3211 B 4
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2122 B 1	2300 C 1	2541 B 3	3150 B 1	3214 C 4
2123 B 1	2301 A 4	2542 A 2	3151 B 1	3216 C 4
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2127 B 1	2306 B 3	2545 A 2	3154 C 1	3219 C 4
2128 B 1	2400 A 3	2546 A 3	3155 C 1	3220 C 4
2129 B 1	2401 A 4	2547 A 2	3156 C 1	3221 B 4
2130 C 1	2402 A 4	2548 A 2	3157 B 1	3222 B 4
2131 C 1	2403 A 4	2549 A 2	3158 B 1	3223 C 4
2132 C 2	2404 A 4	2550 A 2	3159 B 1	3225 C 4
2133 C 2	2405 A 3	2551 B 2	3160 B 1	3226 C 4
2134 C 3	2406 B 3	2552 B 2	3161 B 1	3227 C 4
2135 C 3	2407 A 3	3100 C 2	3162 C 2	3228 C 4
2136 C 3	2408 A 3	3101 C 1	3163 C 3	3229 C 4
2137 C 3	2409 A 3	3102 C 2	3164 C 1	3230 C 4
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2141 C 3	2413 A 3	3106 C 3	3168 C 3	3301 C 2
2142 C 3	2414 B 3	3107 C 3	3169 B 3	3302 B 4
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2146 B 3	2418 A 3	3111 C 2	3173 C 3	3306 C 2
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2148 B 2	2420 A 4	3113 C 3	3179 B 3	3308 C 3
2149 C 2	2421 A 4	3114 C 1	3180 B 3	3309 C 3
2150 C 2	2422 B 4	3115 C 1	3181 B 3	3310 C 3
2151 C 3	2423 B 4	3116 C 1	3182 B 3	3311 C 1
2152 C 3	2426 A 3	3117 C 1	3183 C 3	3312 C 3

MAIN PWB - TOP SIDE VIEW

3313 C 3	3519 A 2	6104 A 4	7210 C 4	9309 B 4
3314 C 2	3520 B 2	6106 C 4	7211 C 4	9310 B 1
3315 C 3	3521 B 2	6107 A 4	7212 B 4	9311 B 3
3316 A 2	3522 B 2	6108 C 4	7213 C 4	9312 C 1
3317 C 3	3523 B 2	6200 B 4	7214 B 4	9313 C 1
3318 B 3	3524 B 2	6201 C 1	7300 C 3	9314 C 1
3319 A 2	3525 A 2	6202 C 4	7301 B 1	9315 C 1
3320 C 3	3526 A 1	6203 B 4	7302 B 1	9316 B 1
3321 C 4	3527 A 1	6204 C 1	7402 A 3	9317 B 3
3322 C 4	3528 B 3	6205 C 1	7403 A 3	9318 A 2
3323 B 1	3529 B 3	6206 C 1	7404 B 3	9319 A 2
3324 B 1	3530 B 3	6207 C 1	7405 B 3	9320 A 1
3325 A 1	3531 B 3	6208 A 4	7500 B 3	9321 A 2
3400 A 4	3532 B 2	6210 B 4	7501 B 2	9322 A 2
3401 A 4	3533 A 1	6211 B 4	7502 B 2	9323 C 3
3402 B 3	3534 A 1	6212 C 4	7503 A 2	9324 B 1
3403 A 3	3540 B 2	6213 C 4	7504 A 2	9325 C 3
3404 A 3	3541 B 2	6214 C 4	9100 C 2	9326 A 3
3405 A 3	3542 B 2	6215 C 4	9101 C 2	9327 A 3
3406 A 3	3543 A 2	6216 B 4	9102 C 2	9328 C 3
3407 B 3	3544 A 2	6217 C 4	9103 C 1	9400 A 3
3408 A 4	3546 A 2	6218 C 4	9104 C 1	9402 A 2
3409 A 4	3547 A 2	6300 B 3	9105 B 1	9500 B 2
3410 A 3	3550 B 3	6301 C 3	9106 C 1	9501 B 3
3411 A 3	3554 B 2	6302 B 3	9107 C 1	9502 B 2
3412 A 3	3557 B 3	6303 C 3	9108 C 1	9504 C 1
3413 A 3	3558 B 3	6304 C 4	9109 B 2	9505 B 2
3414 A 4	3560 B 2	6305 B 1	9110 B 2	9506 A 1
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3416 A 3	4005 B 2	6401 A 3	9112 C 2	9508 A 2
3417 A 4	4006 C 2	6402 A 3	9113 C 3	9509 A 1
3418 A 4	4100 C 3	6403 A 3	9114 C 1	9510 A 2
3419 A 3	4101 C 4	6404 A 3	9115 C 3	
3420 A 3	4102 C 1	6405 A 4	9200 C 3	
3421 A 4	4103 C 1	6406 A 3	9201 C 1	
3422 A 3	4104 C 2	6407 A 3	9202 C 1	
3423 A 3	4105 C 3	6408 A 4	9203 C 1	
3424 B 3	4106 B 3	7100 C 2	9204 C 4	
3425 B 3	4107 C 4	7101 C 1	9206 C 1	
3426 B 3	4108 C 4	7102 C 4	9207 A 3	
3427 B 3	4109 A 4	7103 C 2	9208 C 1	
3428 B 3	4110 B 2	7104 C 1	9209 C 4	
3501 A 2	4111 B 2	7105 C 4	9210 B 1	
3502 A 2	4112 C 4	7106 C 3	9211 B 4	
3503 A 1	4113 C 2	7107 C 2	9213 C 4	
3504 A 1	4115 B 2	7108 C 2	9214 A 4	
3505 A 2	4116 C 1	7109 C 2	9215 C 4	
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3507 A 2	4118 C 2	7111 C 2	9217 C 4	
3508 A 2	4119 C 1	7200 C 4	9218 A 2	
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3511 A 2	4121 C 2	7202 C 4	9301 B 1	
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3513 A 2	5101 C 3	7204 C 4	9303 B 1	
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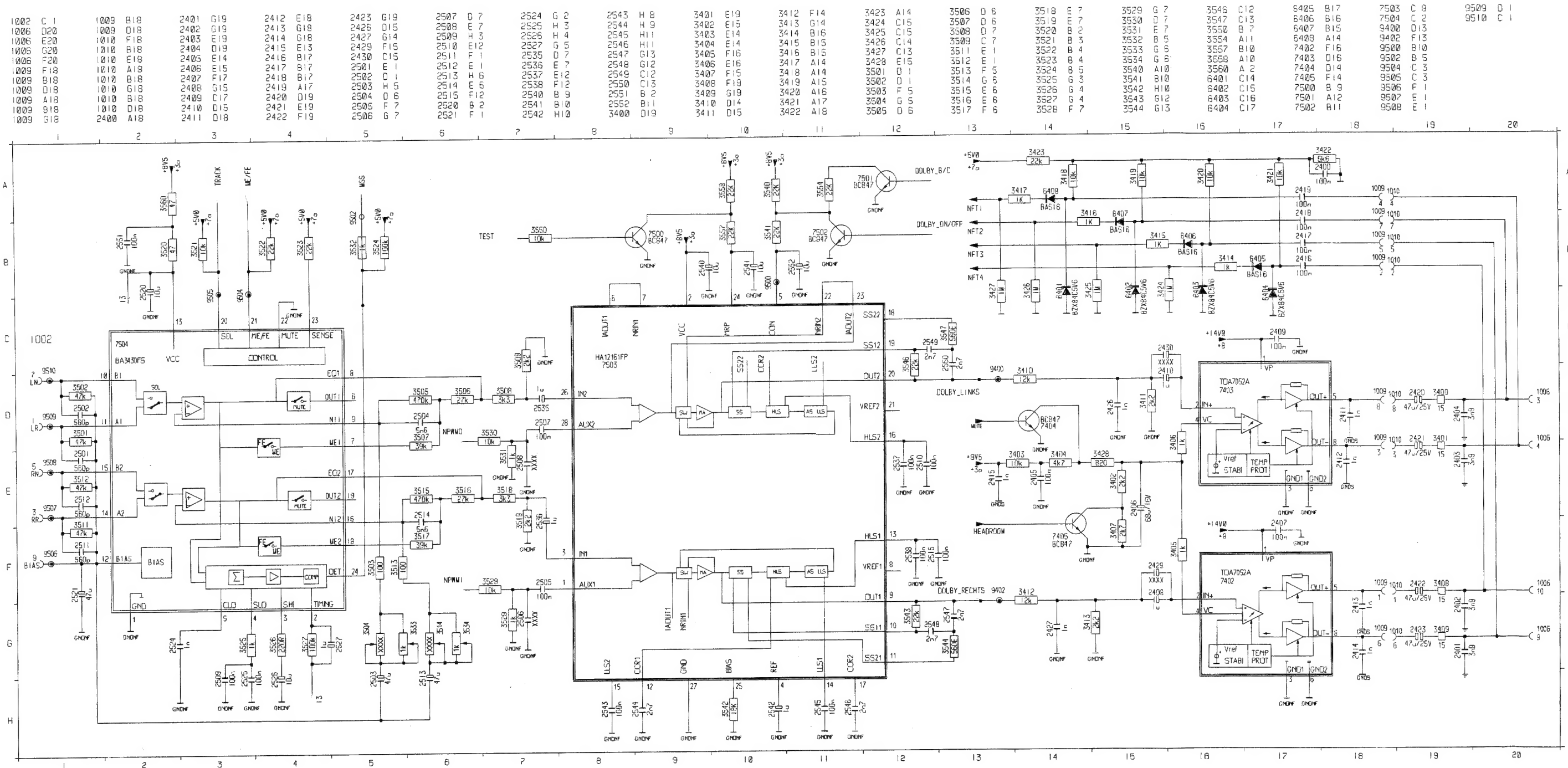


MAIN PWB - CONTROL CIRCUIT



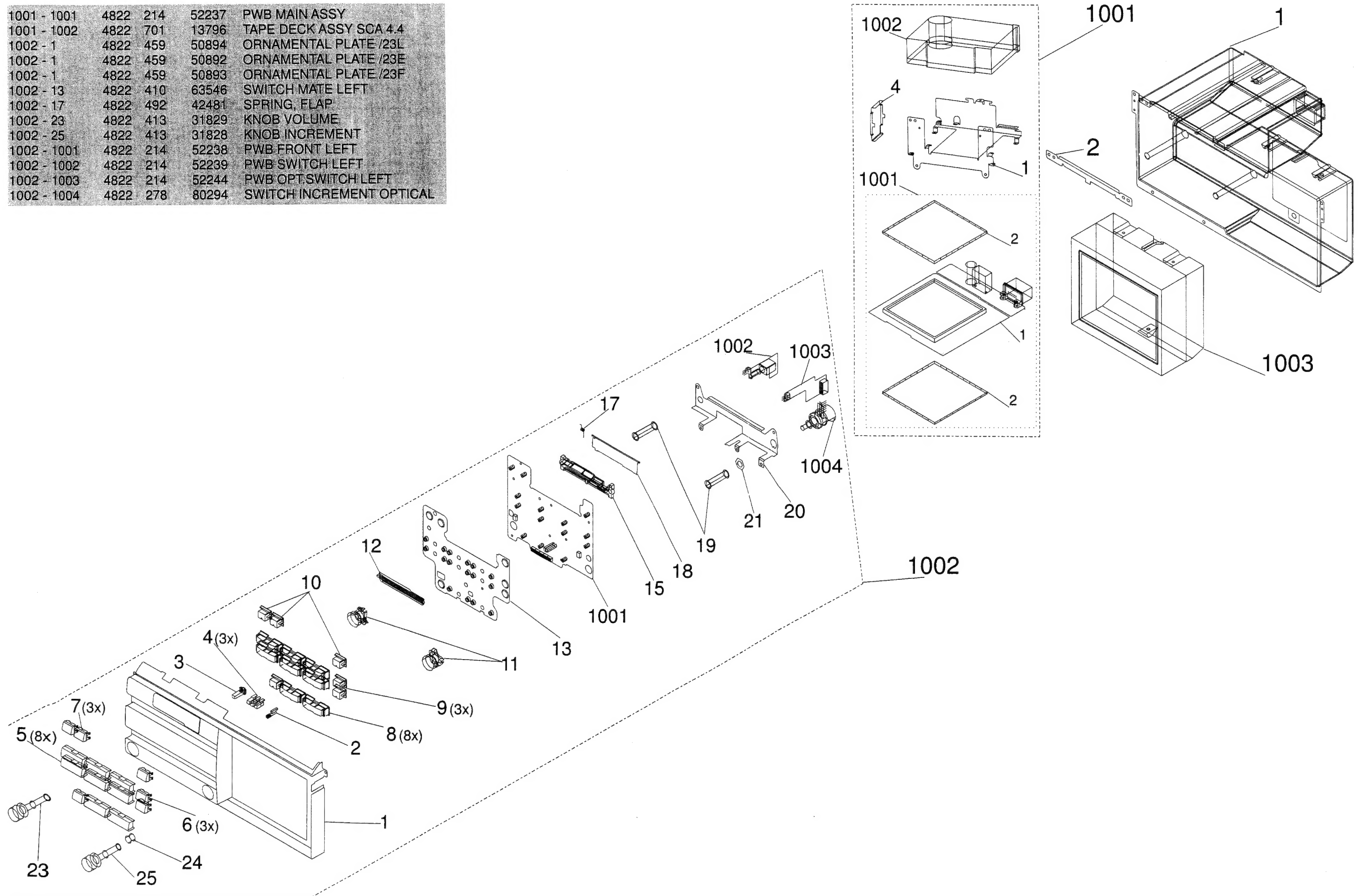
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1001	E19	2153	I15	3185	L10	6208	I18
1001	D10	2154	C10	3186	K10	6209	A10
1001	A10	2155	L10	3187	J13	6210	B11
1001	G19	2156	C2	3188	J14	6212	E16
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1001	H19	2158	D10	3190	C4	6214	B15
1001	H19	2159	D10	3191	B9	6215	C17
1001	H19	2160	D10	3192	B9	6216	B13
1001	H19	2161	J16	3193	H13	6217	O17
1001	H19	2162	D20	3194	H13	6218	A13
1001	H19	2163	D16	3195	H13	6219	A13
1001	H19	2164	F15	3196	H13	6220	L13
1001	K2	2165	B19	3197	G12	6221	M12
1001	H19	2166	M16	3198	G12	6222	I2
1001	J1	2167	G15	3199	G11	6223	M2
1001	K1	2168	D19	3200	G11	6224	F18
1001	J1	2169	D17	3201	C11	6225	F19
1001	J1	2170	E14	3202	A11	6226	F19
1001	J1	2171	C15	3203	B15	6227	F3
1001	J1	2172	D16	3204	C15	6228	F2
1001	J15	2173	B18	3205	A12	6229	D4
1001	H19	2174	D13	3206	A12	6230	M15
1001	H19	2175	F12	3207	G14	6231	D14
1001	K19	2176	E13	3208	C20	6232	G15
1001	J19	2177	A4	3209	B13	6233	C4
1006	N19	2178	A5	3210	C15	6234	C6
1006	A2	2179	E13	3211	C15	6235	M17
1006	M20	2180	A13	3212	A11	6236	O19
1006	A20	2181	A10	3213	C10	6237	C13
1006	A20	2182	D13	3214	C19	6238	M15
1006	H1	2183	L2	3215	B14	6239	G15
1006	C1	2184	I1	3216	E15	6240	B17
1006	M1	2185	N2	3217	C13	6241	A14
1006	C10	2186	N2	3218	A15	6242	F14
1006	H1	2187	M13	3219	A17	6243	C18
1006	H1	2188	A10	3220	I13	6244	A12
1006	C3	2189	J13	3221	B11	6245	F15
1006	M19	2190	G12	3222	B17	6246	C14
1006	N16	2191	I11	3223	F16	6247	C12
1006	E14	2192	E3	3224	F16	6248	B15
1006	C19	2193	F5	3225	F17	6249	E15
1006	A3	2194	F6	3226	C17	6250	E16
1006	A3	2195	F6	3227	E15	6251	C14
1006	C20	2196	F6	3228	A14	6252	C15
1006	E19	2197	F5	3229	D19	6253	A12
1006	C20	2198	G6	3230	C12	6254	E18
1006	A14	2199	G6	3231	G18	6255	G19
1010	C10	2200	G2	3232	H18	6256	G18
1010	H1	2201	D4	3233	L13	6257	J15
1010	A11	2202	I12	3234	L13	6258	C9
1010	C2	2203	I12	3235	M13	6259	K15
1010	M19	2204	I12	3236	H18	6260	K15
1010	N16	2205	I11	3237	H18	6261	K2
1010	E14	2206	N15	3238	M3	6262	K15
1010	C19	2207	J13	3239	N3	6263	J15
1010	A3	2208	K13	3240	M3	6264	D2
1010	A3	2209	K13	3241	L2	6265	F8
1010	E18	2210	M18	3242	M3	6266	F8
1010	C20	2211	M15	3243	M3	6267	J15
1010	A14	2212	M15	3244	N3	6268	G16
1010	A14	2213	M15	3245	N3	6269	H15
1010	A20	2214	M15	3246	N3	6270	N15
1010	E7	2215	E12	3247	I2	6271	N15
2100	I14	2216	F7	3248	E19	6272	E12
2101	K14	2217	G2	3249	E19	6273	C19
2102	G10	2218	G5	3250	F19	6274	K19
2103	F5	2219	M10	3251	E19	6275	H19
2104	F5	2220	G5	3252	F18	6276	I19
2105	K13	2221	G5	3253	G18	6277	J19
2107	K13	2222	G4	3254	G6	6278	E12
2108	K13	2223	G4	3255	E7	6279	B20
2109	K14	2224	H4	3256	E7	6280	C20
2110	M17	2225	H4	3257	E12	6281	C20
2111	C6	2226	H4	3258	D13	6282	A19
2112	G11	2227	H5	3259	C2	6283	C14
2113	D7	2228	H5	3260	E2	6284	D14
2114	E7	2229	I5	3261	E4	6285	B16
2117	E11	2230	I5	3262	G4	6286	A15
2118	I4	2231	I13	3263	I11	6287	A15
2119	F11	2232	I7	3264	C15	6288	A4
2120	I4	2233	I7	3265	C15	6289	H12
2121	I4	2234	I6	3266	C2	6290	H12
2122	I5	2235	I6	3267	F7	6291	H12
2123	I5	2236	I6	3268	F7	6292	K12
2125	K4	2237	I5	3269	B5	6293	J12
2126	K3	2238	I5	3270	M15	6294	J12
2127	K3	2239	I5	3271	K15	6295	J12
2128	K3	2240	I5	3272	L15	6296	J12
2129	K3	2241	I5	3273	J16	6297	J12
2130	K2	2242	I5	3274	L18	6298	L12
2131	K2	2243	I5	3275	J16	6299	N14
2132	M18	2244	K15	3276	I16	6300	L12
2133	M18	2245	K15	3277	K15	6301	L12
2134	I14	2246	E7	3278	I15	6302	H19
2135	N5	2247	M7	3279	D10	6303	H19
2136	N5	2248	M6	3280	E10	6304	H19
2137	N5	2249	M6	3281	F11	6305	H2
2138	N5	2250	M6	3282	M18	6306	H2
2139	N5	2251	M6	3283	M18	6307	H2
2140	N5	2252	M6	3284	M18	6308	M12
2141	M10	2253	L5	3285	O2	6309	M12
2142	N11	2254	L5	3286	C3	6310	N2
2143	M11	2255	L5	3287	L19	6311	E19
2144	N11	2256	L6	3288	C4		
2145	M11	2257	G12	3289	B13		
2146	N11	2258	L7	3290	L7		
2147	M11	2259	M10	3291	B16		
2148	E10	2260	M10	3292	A13		
2149	F10	2261	L10	3293	J18		

MAIN PWB - AF CIRCUIT

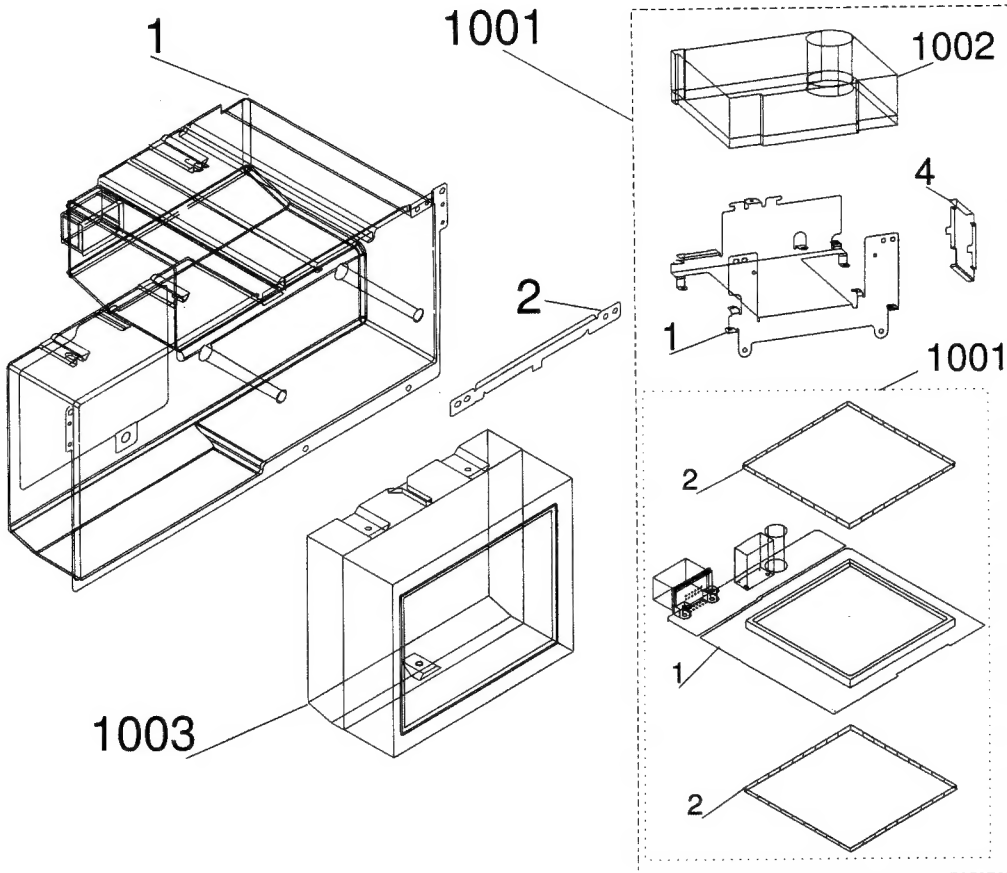


MECHANICAL PARTS LEFT HAND VERSION

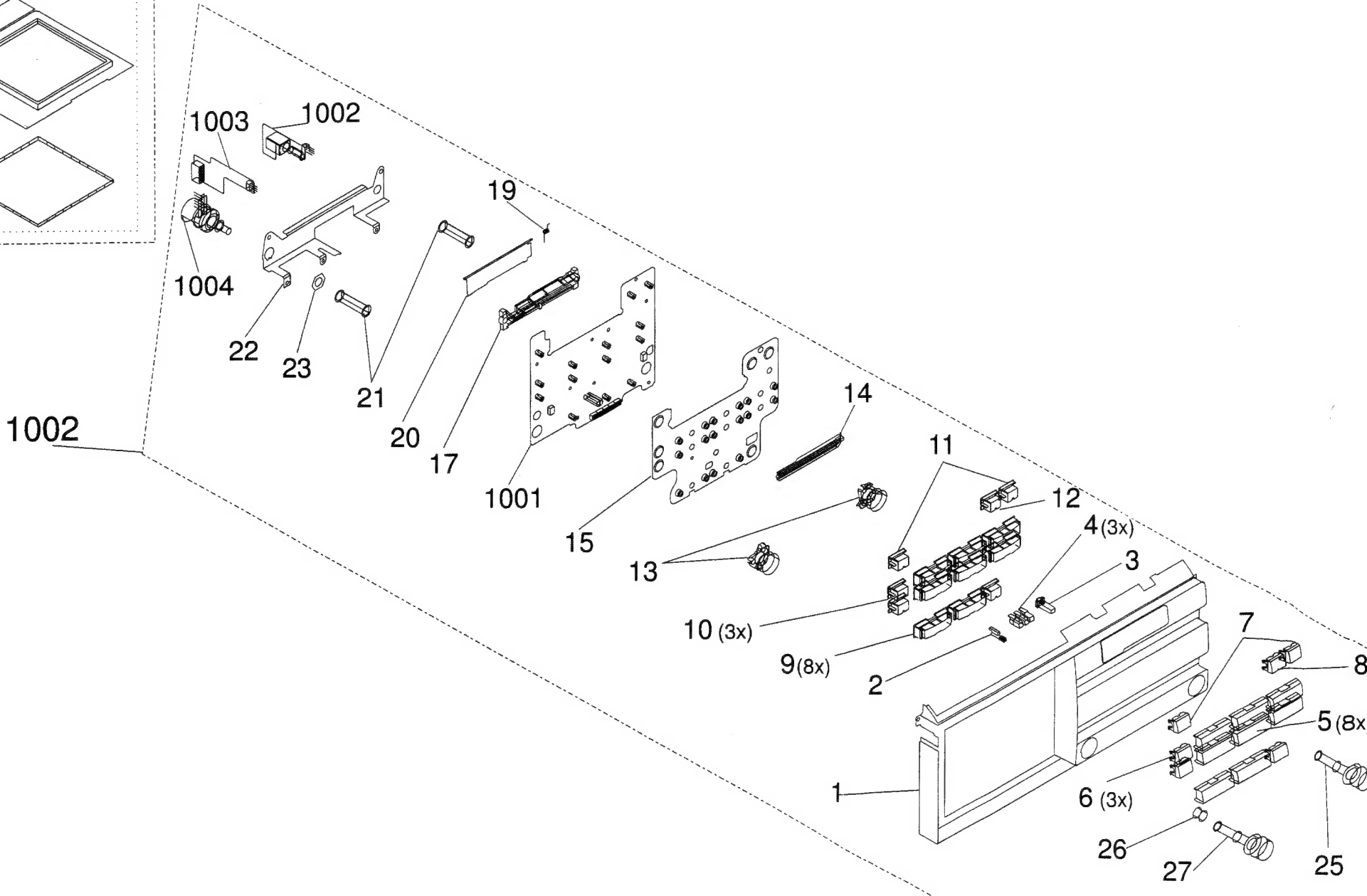
1001 - 1001	4822	214	52237	PWB MAIN ASSY
1001 - 1002	4822	701	13796	TAPE DECK ASSY SCA 4.4
1002 - 1	4822	459	50894	ORNAMENTAL PLATE /23L
1002 - 1	4822	459	50892	ORNAMENTAL PLATE /23E
1002 - 1	4822	459	50893	ORNAMENTAL PLATE /23F
1002 - 13	4822	410	63546	SWITCH MATE LEFT
1002 - 17	4822	492	42481	SPRING, FLAP
1002 - 23	4822	413	31829	KNOB VOLUME
1002 - 25	4822	413	31828	KNOB INCREMENT
1002 - 1001	4822	214	52238	PWB FRONT LEFT
1002 - 1002	4822	214	52239	PWB SWITCH LEFT
1002 - 1003	4822	214	52244	PWB OPT.SWITCH LEFT
1002 - 1004	4822	278	80294	SWITCH INCREMENT OPTICAL



MECHANICAL PARTS RIGHT HAND VERSION



1001 - 1001	4822	214	52237	PWB MAIN ASSY
1001 - 1002	4822	701	13796	TAPE DECK ASSY SCA 4.4
1002 - 1	4822	459	50888	ORNAMNTAL PLATE /23B
1002 - 1	4822	459	50889	ORNAMNTAL PLATE /23R
1002 - 1	4822	459	50891	ORNAMNTAL PLATE /23T
1002 - 15	4822	410	63547	SWITCH MATE RIGHT
1002 - 19	4822	492	42481	SPRING, FLAP
1002 - 25	4822	413	31829	KNOB VOLUME
1002 - 27	4822	413	31828	KNOB INCREMENT
1002 - 1001	4822	214	52241	PWB FRONT RIGHT
1002 - 1002	4822	214	52242	PWB SWITCH RIGHT
1002 - 1003	4822	214	52243	PWB OPT.SWITCH RIGHT
1002 - 1004	4822	278	80294	SWITCH INCREMENT OPTICAL



LECTRICAL PARTS MAIN PWB

MISCELLANEOUS

011 4822	252 51181	FUSE	FUSE	3A(T)
108 4822	242 81646	CRYSTAL	11.059	MHZ

APACITORS

100 4822	122 33216	CAPCHIP	270PF	5%NP0	50V
101 4822	122 33216	CAPCHIP	270PF	5%NP0	50V
102 4822	122 32891	CAPCERAMIC	68NF	10%X7R	63V
103 4822	122 33216	CAPCHIP	270PF	5%NP0	50V
104 4822	122 33216	CAPCHIP	270PF	5%NP0	50V
105 4822	122 33216	CAPCHIP	270PF	5%NP0	50V
106 4822	122 33216	CAPCHIP	270PF	5%NP0	50V
107 4822	122 33216	CAPCHIP	270PF	5%NP0	50V
108 4822	122 33216	CAPCHIP	270PF	5%NP0	50V
109 4822	122 33216	CAPCHIP	270PF	5%NP0	50V
110 4822	122 33496	CAPCHIP	100NF	10%X7R	63V
111 4822	122 33496	CAPCHIP	100NF	10%X7R	63V
112 4822	122 33496	CAPCHIP	100NF	10%X7R	63V
113 5322	122 32659	CAPCHIP	33PF	5%	50V
114 5322	122 33869	CAPCHIP	15PF	5%NP0	63V
117 4822	122 33496	CAPCHIP	100N	F10%X7R	63V
118 4822	122 33216	CAPCHIP	270PF	5%NP0	50V
119 4822	122 33177	CAPCHIP	10NF	20%X7R	50V
120 4822	122 33216	CAPCHIP	270PF	5%NP0	50V
121 4822	122 33216	CAPCHIP	270PF	5%NP0	50V
122 4822	122 33216	CAPCHIP	270PF	5%NP0	50V
123 4822	122 33216	CAPCHIP	270PF	5%NP0	50V
125 4822	122 33216	CAPCHIP	270PF	5%NP0	50V
126 4822	122 33216	CAPCHIP	270PF	5%NP0	50V
127 4822	122 33216	CAPCHIP	270PF	5%NP0	50V
128 4822	122 33216	CAPCHIP	270PF	5%NP0	50V
129 4822	122 33216	CAPCHIP	270PF	5%NP0	50V
130 4822	122 33216	CAPCHIP	270PF	5%NP0	50V
131 4822	122 33216	CAPCHIP	270PF	5%NP0	50V
132 4822	122 33515	CAPCHIP	82PF	5%NP0	63V
133 5322	122 32448	CAPCERAMIC	10PF	5%	50V
134 4822	122 33216	CAPCHIP	270PF	5%NP0	50V
135 4822	122 33216	CAPCHIP	270PF	5%NP0	50V
136 4822	122 33216	CAPCHIP	270PF	5%NP0	50V
137 4822	122 33216	CAPCHIP	270PF	5%NP0	50V
138 4822	122 33216	CAPCHIP	270PF	5%NP0	50V
139 4822	122 33216	CAPCHIP	270PF	5%NP0	50V
140 4822	122 33496	CAPCHIP	100NF	10%X7R	63V
141 4822	122 33496	CAPCHIP	100NF	10%X7R	63V
142 4822	122 33496	CAPCHIP	100NF	10%X7R	63V
143 4822	122 33496	CAPCHIP	100NF	10%X7R	63V
144 4822	122 33496	CAPCHIP	100NF	10%X7R	63V
145 4822	122 33496	CAPCHIP	100NF	10%X7R	63V
146 4822	122 33496	CAPCHIP	100NF	10%X7R	63V
147 4822	122 33496	CAPCHIP	100NF	10%X7R	63V
148 4822	122 32566	CAPCHIP	3,9NF	10%X7R	63V
149 5322	122 31865	CAPCHIP	1,5NF	10%X7R	63V
150 4822	122 33216	CAPCHIP	270PF	5%NP0	50V
151 4822	122 33216	CAPCHIP	270PF	5%NP0	50V
152 4822	122 33216	CAPCHIP	270PF	5%NP0	50V
153 4822	122 33216	CAPCHIP	270PF	5%NP0	50V
155 4822	122 33496	CAPCHIP	100NF	10%X7R	63V
156 4822	122 32566	CAPCHIP	3,9NF	10%X7R	63V
157 4822	124 20678	CAPELECTROLYT.	47UF	50%	10V
159 4822	122 33496	CAPCHIP	100NF	10%X7R	63V
160 4822	051 20008	RES.CHIP	0R00	JUMP,(0805)	
161 4822	122 33216	CAPCHIP	270PF	5%NP0	50V
2200 4822	122 33496	CAPCHIP	100NF	10%X7R	63V
2201 4822	124 80707	CAPELECTROLYT.	2200UF	20%	25V
2202 4822	124 23255	CAPELECTROLYT.	100UF	16V	
2203 4822	122 32566	CAPCHIP	3,9NF	10%X7R	63V
2204 4822	122 32566	CAPCHIP	3,9NF	10%X7R	63V
2205 4822	122 33496	CAPCHIP	100NF	10%X7R	63V
2206 4822	124 22646	CAPELECTROLYT.	47UF	20%	16V
2207 4822	122 33177	CAPCHIP	10NF	20%X7R	50V
2208 4822	122 33496	CAPCHIP	100NF	10%X7R	63V
2209 4822	124 23255	CAPELECTROLYT.	100UF	16V	
2210 4822	122 33496	CAPCHIP	100NF	10%X7R	63V
2211 4822	124 80707	CAPELECTROLYT.	2200UF	20%	25V
2212 4822	124 20697	CAPELECTROLYT.	10UF	50%	25V
2213 4822	124 20722	CAPELECTROLYT.	1UF	50%	63V
2215 5322	124 10512	CAPELECTROLYT.	68UF	20%	16V
2216 4822	122 33496	CAPCHIP	100NF	10%X7R	63V
2217 4822	122 33496	CAPCHIP	100NF	10%X7R	63V
2218 4822	122 33178	CAPCHIP	1NF	20%X7R	50V
2230 4822	122 33496	CAPCHIP	100NF	10%X7R	63V
2231 4822	122 32627	CAPCERAMIC	2,7NF	10%X7R	50V
2233 4822	122 33496	CAPCHIP	100NF	10%X7R	63V
2300 4822	122 33216	CAPCHIP	270PF	5%NP0	50V
2301 4822	122 32566	CAPCHIP	3,9NF	10%X7R	63V
2304 4822	122 33496	CAPCHIP	100NF	10%X7R	63V
2305 4822	124 20722	CAPELECTROLYT.	1UF	50%	63V

2306 4822	124 20722	CAPELECTROLYT.	1UF	50%	63V
2400 4822	122 33496	CAPCHIP	100NF	10%X7R	63V
2401 4822	122 32566	CAPCHIP	3,9NF	10%X7R	63V
2402 4822	122 32566	CAPCHIP	3,9NF	10%X7R	63V
2403 4822	122 32566	CAPCHIP	3,9NF	10%X7R	63V
2404 4822	122 32566	CAPCHIP	3,9NF	10%X7R	63V
2405 4822	122 33496	CAPCHIP	100NF	10%X7R	63V
2406 5322	124 10512	CAPELECTROLYT.	68UF	20%	16V
2407 4822	122 33496	CAPCHIP	100NF	10%X7R	63V
2408 4822	124 11453	CAPTANTAL	1UF	20%	16V
2409 4822	122 33496	CAPCHIP	100NF	10%X7R	63V
2410 4822	124 11453	CAPTANTAL	1UF	20%	16V
2411 4822	122 33178	CAPCHIP	1NF	20%X7R	50V
2412 4822	122 33178	CAPCHIP	1NF	20%X7R	50V
2413 4822	122 33178	CAPCHIP	1NF	20%X7R	50V
2414 4822	122 33178	CAPCHIP	1NF	20%X7R	50V
2415 4822	122 33178	CAPCHIP	1NF	20%X7R	50V
2416 4822	122 33496	CAPCHIP	100NF	10%X7R	63V
2417 4822	122 33496	CAPCHIP	100NF	10%X7R	63V
2418 4822	122 33496	CAPCHIP	100NF	10%X7R	63V
2419 4822	122 33496	CAPCHIP	100NF	10%X7R	63V
2420 4822	124 40433	CAPELECTROLYT.	47UF	20%	25V
2421 4822	124 40433	CAPELECTROLYT.	47UF	20%	25V
2422 4822	124 40433	CAPELECTROLYT.	47UF	20%	25V
2423 4822	124 40433	CAPELECTROLYT.	47UF	20%	25V
2426 4822	122 33178	CAPCHIP	1NF	20%X7R	50V
2427 4822	122 33178	CAPCHIP	1NF	20%X7R	50V
2501 4822	122 33173	CAPCHIP	560PF	10%X7R	50V
2502 4822	122 33173	CAPCHIP	560PF	10%X7R	50V
2503 4822	124 20678	CAPELECTROLYT.	47UF	5%	10V
2504 4822	122 32646	CAPCERAMIC	5,6NF	10%X7R	50V
2505 4822	122 33496	CAPCHIP	100NF	10%X7R	63V
2507 4822	122 33496	CAPCHIP	100NF	10%X7R	63V
2509 4822	122 33496	CAPCHIP	100NF	10%X7R	63V
2510 4822	122 33496	CAPCHIP	100NF	10%X7R	63V
2511 4822	122 33173	CAPCHIP	560PF	10%X7R	50V
2512 4822	122 33173	CAPCHIP	560PF	10%X7R	50V
2513 4822	124 20678	CAPELECTROLYT.	47UF	5%	10V
2514 4822	122 32646	CAPCERAMIC	5,6NF	10%X7R	50V
2515 4822	122 33496	CAPCHIP	100NF	10%X7R	63V
2520 4822	124 20697	CAPELECTROLYT.	10UF	5%	25V
2521 4822	124 20678	CAPELECTROLYT.	47UF	5%	10V
2524 4822	122 33178	CAPCHIP	1NF	20%X7R	50V
2525 4822	122 33496	CAPCHIP	100NF	10%X7R	63V
2526 4822	124 20697	CAPELECTROLYT.	10UF	5%	25V
2527 4822	124 11453	CAPTANTAL	1UF	20%	16V
2535 4822	124 11453	CAPTANTAL	1UF	20%	16V
2536 4822	124 11453	CAPTANTAL	1UF	20%	16V
2537 4822	122 33496	CAPCHIP	100NF	10%X7R	63V
2538 4822	122 33496	CAPCHIP	100NF	10%X7R	63V
2540 4822	124 20697	CAPELECTROLYT.	10UF	5%	25V
2541 4822	124 20697	CAPELECTROLYT.	10UF	5%	25V
2542 4822	124 11453	CAPTANTAL	1UF	20%	16V
2543 4822	122 33496	CAPCHIP	100NF	10%X7R	63V
2544 4822	122 32627	CAPCERAMIC	2,7NF	10%X7R	50V
2545 4822	122 33496	CAPCHIP	100NF	10%X7R	63V
2546 4822	122 32627	CAPCERAMIC	2,7NF	10%X7R	50V
2547 4822	122 32627	CAPCERAMIC	2,7NF	10%X7R	50V
2548 4822	122 32627	CAPCERAMIC	2,7NF	10%X7R	50V
2549 4822	122 32627	CAPCERAMIC	2,7NF	10%X7R	50V
2550 4822	122 32627	CAPCERAMIC	2,7NF	10%X7R	50V
2551 4822	122 33496	CAPCHIP	100NF	10%X7R	63V
2552 4822	124 20697	CAPELECTROLYT.	10UF	5%	25V

RESISTORS

3100 4822	051 20101	RES.CHIP	100R00	5%	0,1W
3101 4822	051 20101	RES.CHIP	100R00	5%	0,1W
3105 4822	051 20101	RES.CHIP	100R00	5%	0,1W
3108 4822	051 20102	RES.CHIP	1K00	5%	0,1W
3109 4822	051 20102	RES.CHIP	1K00	5%	0,1W
3110 4822	051 20101	RES.CHIP	100R00	5%	0,1W
3113 4822	051 20102	RES.CHIP	1K00	5%	0,1W
3118 4822	051 20222	RES.CHIP	2K20	5%	0,1W
3123 4822	051 20101	RES.CHIP	100R00	5%	0,1W
3127 4822	051 20109	RES.CHIP	10R00	5%	0,1W
3128 4822	051 20102	RES.CHIP	1K00	5%	0,1W
3129 4822	051 20332	RES.CHIP	3K30	5%	0,1W
3133 4822	051 20183	RES.CHIP	18K00	5%	0,1W
3139 4822	051 20101	RES.CHIP	100R00	5%	0,1W
3140 4822	051 20101	RES.CHIP	100R00	5%	0,1W
3141 4822	051 20101	RES.CHIP	100R00	5%	0,1W
3142 4822	051 20101	RES.CHIP	100R00	5%	0,1W
3143 4822	051 20101	RES.CHIP	100R00	5%	0,1W
3155 4822	051 20101	RES.CHIP	100R00	5%	0,1W
3156 4822	051 20101	RES.CHIP	100R00	5%	0,1W
3157 4822	051 20101	RES.CHIP	100R00	5%	0,1W
3158 4822	051 20101	RES.CHIP	100R00	5%	0,1W
3159 4822	051 20101	RES.CHIP	100R00	5%	0,1W
3160 4822	051 20101	RES.CHIP	100R00	5%	0,1W

3161	4822	051	20101	RES.CHIP	100R00	5%	0,1W
3162	4822	051	20471	RES.CHIP	470R00	5%	0,1W
3163	4822	051	20479	RES.CHIP	47R00	5%	0,1W
3164	4822	051	20479	RES.CHIP	47R00	5%	0,1W
3165	4822	051	20101	RES.CHIP	100R00	5%	0,1W
3166	4822	051	20479	RES.CHIP	47R00	5%	0,1W
3167	4822	051	20101	RES.CHIP	100R00	5%	0,1W
3168	4822	051	20101	RES.CHIP	100R00	5%	0,1W
3187	4822	051	20101	RES.CHIP	100R00	5%	0,1W
3188	4822	051	20101	RES.CHIP	100R00	5%	0,1W
3189	4822	051	20101	RES.CHIP	100R00	5%	0,1W
3190	4822	051	20122	RES.CHIP	1K20	5%	0,1W
3193	4822	051	20101	RES.CHIP	100R00	5%	0,1W
3194	4822	051	20101	RES.CHIP	100R00	5%	0,1W
3195	4822	051	20101	RES.CHIP	100R00	5%	0,1W
3196	4822	051	20101	RES.CHIP	100R00	5%	0,1W
3202	4822	051	20222	RES.CHIP	2K20	5%	0,1W
3203	4822	051	20223	RES.CHIP	22K00	5%	0,1W
3206	4822	051	20102	RES.CHIP	1K00	5%	0,1W
3207	4822	051	20102	RES.CHIP	1K00	5%	0,1W
3209	4822	051	20102	RES.CHIP	1K00	5%	0,1W
3210	4822	051	20102	RES.CHIP	1K00	5%	0,1W
3211	4822	051	20223	RES.CHIP	22K00	5%	0,1W
3212	4822	051	20222	RES.CHIP	2K20	5%	0,1W
3214	4822	051	20104	RES.CHIP	100K00	5%	0,1W
3217	4822	051	20222	RES.CHIP	2K20	5%	0,1W
3219	4822	116	83664	RES.METAL FILM	10K	5%	0,5W
3220	4822	051	20223	RES.CHIP	22K00	5%	0,1W
3221	4822	051	20105	RES.CHIP	1M00	5%	0,1W
3222	4822	051	20104	RES.CHIP	100K00	5%	0,1W
3223	4822	116	52227	RES.METAL FILM	620E	5%	0,5W
3226	4822	051	20101	RES.CHIP	100R00	5%	0,1W
3227	4822	051	20102	RES.CHIP	1K00	5%	0,1W
3229	4822	051	20223	RES.CHIP	22K00	5%	0,1W
3230	4822	051	20474	RES.CHIP	470K00	5%	0,1W
3231	4822	051	20473	RES.CHIP	47K00	5%	0,1W
3300	4822	051	20471	RES.CHIP	470R00	5%	0,1W
3301	4822	051	20471	RES.CHIP	470R00	5%	0,1W
3302	4822	051	20683	RES.CHIP	68K00	5%	0,1W
3303	4822	051	20153	RES.CHIP	15K00	5%	0,1W
3304	4822	116	52291	RES.METAL FILM	56K	5%	0,5W
3305	4822	051	20223	RES.CHIP	22K00	5%	0,1W
3306	4822	051	20471	RES.CHIP	470R00	5%	0,1W
3307	4822	051	20471	RES.CHIP	470R00	5%	0,1W
3308	4822	051	20223	RES.CHIP	22K00	5%	0,1W
3309	4822	051	20223	RES.CHIP	22K00	5%	0,1W
3310	4822	051	20223	RES.CHIP	22K00	5%	0,1W
3311	4822	051	20101	RES.CHIP	100R00	5%	0,1W
3312	4822	051	20101	RES.CHIP	100R00	5%	0,1W
3313	4822	051	20101	RES.CHIP	100R00	5%	0,1W
3314	4822	051	20101	RES.CHIP	100R00	5%	0,1W
3315	4822	051	20101	RES.CHIP	100R00	5%	0,1W
3317	4822	116	83664	RES.METAL FILM	10K	5%	0,5W
3318	4822	051	20332	RES.CHIP	3K30	5%	0,1W
3320	4822	051	20222	RES.CHIP	2K20	5%	0,1W
3324	4822	051	20222	RES.CHIP	2K20	5%	0,1W
3400	4822	116	52182	RES.METAL FILM	15E	5%	0,5W
3401	4822	116	52182	RES.METAL FILM	15E	5%	0,5W
3402	4822	051	20222	RES.CHIP	2K20	5%	0,1W
3404	4822	051	20472	RES.CHIP	4K70	5%	0,1W
3405	4822	051	20102	RES.CHIP	1K00	5%	0,1W
3406	4822	051	20102	RES.CHIP	1K00	5%	0,1W
3408	4822	116	52182	RES.METAL FILM	15E	5%	0,5W
3409	4822	116	52182	RES.METAL FILM	15E	5%	0,5W
3410	4822	051	20123	RES.CHIP	12K00	5%	0,1W
3411	4822	051	20222	RES.CHIP	2K20	5%	0,1W
3412	4822	051	20123	RES.CHIP	12K00	5%	0,1W
3413	4822	051	20222	RES.CHIP	2K20	5%	0,1W
3414	4822	051	20102	RES.CHIP	1K00	5%	0,1W
3415	4822	051	20102	RES.CHIP	1K00	5%	0,1W
3416	4822	051	20102	RES.CHIP	1K00	5%	0,1W
3417	4822	051	20102	RES.CHIP	1K00	5%	0,1W
3423	4822	051	20223	RES.CHIP	22K00	5%	0,1W
3424	4822	051	20105	RES.CHIP	1M00	5%	0,1W
3425	4822	051	20105	RES.CHIP	1M00	5%	0,1W
3426	4822	051	20105	RES.CHIP	1M00	5%	0,1W
3427	4822	051	20105	RES.CHIP	1M00	5%	0,1W
3428	4822	051	20102	RES.CHIP	1K00	5%	0,1W
3501	4822	051	20473	RES.CHIP	47K00	5%	0,1W
3502	4822	051	20473	RES.CHIP	47K00	5%	0,1W
3503	4822	051	20101	RES.CHIP	100R00	5%	0,1W
3505	4822	051	20474	RES.CHIP	470K00	5%	0,1W
3506	4822	051	20273	RES.CHIP	27K00	5%	0,1W
3508	4822	051	20332	RES.CHIP	3K30	5%	0,1W
3509	4822	051	20222	RES.CHIP	2K20	5%	0,1W
3511	4822	051	20473	RES.CHIP	47K00	5%	0,1W
3512	4822	051	20473	RES.CHIP	47K00	5%	0,1W
3513	4822	051	20101	RES.CHIP	100R00	5%	0,1W
3515	4822	051	20474	RES.CHIP	470K00	5%	0,1W